#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization

International Bureau



## 

## (43) International Publication Date 24 June 2004 (24.06.2004)

**PCT** 

# (10) International Publication Number WO 2004/053865 A1

(51) International Patent Classification<sup>7</sup>: H01L 41/09, B65G 27/24

G11B 17/04,

(21) International Application Number:

PCT/IB2003/005556

(22) International Filing Date: 2 December 2003 (02.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

02102710.7

10 December 2002 (10.12.2002) EP

(71) Applicant (for DE only): PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH [DE/DE]; Steindamm 94, 20099 Hamburg (DE).

(71) Applicant (for all designated States except DE, US): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RUMPF, Horst [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE). HOPF, Christian [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE).

**REICHINGER, Christian** [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE).

(74) Agent: MEYER, Michael; Philips Intellectual Property & Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

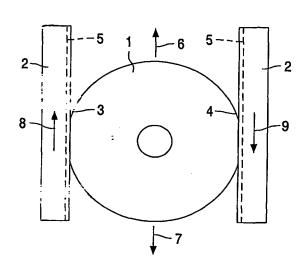
(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INSERTING AND EXTRACTING DEVICE FOR ROTATABLE DATA CARRIER PLATES



(57) Abstract: The invention relates to an inserting and extracting device for rotatable data carrier plates which mechanically moves the data carrier plate (1) from an inserting position into a playing position before playing and back into the inserting position again after playing, with parallel guide rails (2) which extend over the full range of movement for insertion and extraction and which guide the data carrier plate (1) in grooves (5) at diagonally mutually opposed edge regions, wherein at least one of the guide rails (2) transmits to the data carrier plate (1) motion pulses in one of its directions of movement, by means of which pulses the data carrier plate (1) is moved in the insertion or extraction direction.



